National Aeronautics and Space Administration

DATA & APPLICATIONS ONLINE

FLUXNET

Overview

FLUXNET is a global collection of regionally networked micrometeorological flux tower sites that use eddy covariance methods to measure the exchanges of carbon dioxide, water vapor, and energy between the terrestrial ecosystem and the atmosphere. Researchers also collect vegetation, soil, hydrologic, and meteorological characteristics at the tower sites.

The primary objective of the FLUXNET project is to provide information for validating remote sensing data products. These products include net primary productivity, evaporation, and energy absorption data products that are generated by sensors on the NASA Terra and Aqua satellites. To achieve this goal, FLUXNET provides an infrastructure for compiling, archiving, and distributing measurements and data; and supports calibration and flux inter-comparison activities including analysis, synthesis, and modeling. FLUXNET is part of the Oak Ridge National Laboratory Distributed Active Arhive Center (ORNL DAAC), one of the NASA Earth Observing System Data and Information System (EOSDIS) data centers. NASA data centers provide a wide variety of interdisciplinary Earth system science data, information, services, and tools.

Data

• FLUXNET provides a central clearinghouse for information about the regional networks, including links to the regional networks' data as well as site ancillary data. Information may be queried by name, country, IGBP land use classification, network, or contact at: **http://www.fluxnet.ornl.gov/fluxnet/index.cfm.**

• Search ancillary data by parameter at: **http://www.fluxnet.ornl.gov/fluxnet/paramindex.cfm.**

• Interactively map, subset, and download FLUXNET site data at: **http://webmap.ornl.gov/webgis/viewer.htm?instance=global**

• Find archived FLUXNET data set products at: **http://daac.ornl.gov/cgi-bin/dataset_lister_new.pl?p=9**

Project Highlights

• More than 500 sites operated by more than a dozen regional networks with more than 1000 site-years of data contributed by scientists in 49 countries.

• FLUXNET Principal Investigator: Dennis Baldocchi, University of California, Berkley
• FLUXNET Data Center Lead: Bob Cook, ORNL DAAC, Oak Ridge, Tennessee

To learn more, go to http://daac.ornl.gov/FLUXNET/fluxnet.html

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